

Amendments to the Drawings:

Please replace the drawing sheet showing Fig. 1 with the attached replacement drawing sheet showing Fig. 1.

Attachment: Replacement Drawing Sheet

REMARKS

Claims 13-23 are pending in this application. By this Amendment, claims 1-12 are canceled, and claims 13-23 are added. No new matter is added.

I. Allowable Claims

The Applicant appreciates the Office Action's indication that claims 7, 8, 10 and 11 would be allowable if rewritten in independent form. Applicant submits that claims 13-23 are allowable.

II. Objection to the Drawings

The Office Action objects to the drawings under 37 C.F.R. §1.83(a) for not showing all claimed features.

By this Amendment, Fig. 1 is amended to show path measuring system 90 and pressure measuring system 92. Support for these amendments exists at, for example, paragraphs [0010], [0020] and [0037] of the specification as published and in original claim 4. The specification is amended correspondingly. Applicant requests withdrawal of the objection.

III. Claim Rejection Under 35 U.S.C. §112

The Office Action rejects claims 1-12 under 35 U.S.C. §112, second paragraph, as being unclear. Applicant respectfully traverses the rejection.

By this Amendment, claims 1-12 are canceled, rendering the rejection moot. Applicant requests withdrawal of the rejection.

IV. Claim Rejections Under 35 U.S.C. §§ 102 and 103

The Office Action (1) rejects claims 1-3, 6, 9 and 12 under 35 U.S.C. §102(b) over European Patent Publication No. EP1310346A1 to Dantlgraber (Dantlgraber '346); (2) rejects claims 1, 2, 4, 6, 9 and 12 under 35 U.S.C. §102(b) over German Patent Publication No. DE10143013 to Dantlgraber (Dantlgraber '013); and (3) rejects claim 5 under 35 U.S.C.

§103(a) over either Dantlgraber '346 or Dantlgraber '013 in view of U.S. Patent No. 2,368,659 to Heineck et al. (Heineck). Applicant respectfully traverses the rejections.

By this Amendment, claims 1-12 are canceled, rendering the rejections moot.

Applicant requests withdrawal of the rejections.

V. Claims 13-23 Are Patentable Over the Applied References

By this Amendment, new claims 13-23 are added. New claim 13 recites, among other features, a pre-tensioning means; a pressure line between the two annular chambers, the pressure line having an adjusting valve; and the cylinder chamber in hydraulic communication with the annular chamber of the primary unit, a displacement valve controlling the hydraulic communication.

Regarding independent claim 13, both Dantlgraber '346 and Dantlgraber '013 fail to disclose (1) "a primary unit and a secondary unit that are executed with differential pistons whose large effective surfaces jointly define a cylinder chamber;" (2) "the two annular chambers are in hydraulic communication with each other via a pressure line, with an adjusting valve for controlling this hydraulic connection open and closed being arranged in the pressure line;" and (3) "the cylinder chamber is in hydraulic communication with the annular chamber of the primary unit, and further comprising a displacement valve for controlling the hydraulic connection open or closed."

Dantlgraber '346 discloses an injection molding machine having a pump 20 and clamping cylinders 6 and 8 (Fig. 1). Each of clamping cylinders 6 and 8 has one annular cylinder and one cylindrical cylinder. Pump 20 has a spindle 24, an annular chamber 28, and a cylindrical chamber 26. The cylindrical chambers of clamping cylinder 6 and pump 20 are connected by passage 19 (Fig. 1). Dantlgraber '346 thus fails to disclose feature (1) above because the pistons of clamping cylinder 6 and pump 20 each separately define separate cylindrical chambers. Jointly, the pistons of clamping cylinder 6 and pump 20 do not define a

cylindrical chamber, as recited, although they do jointly define a space that comprises two cylindrical cylinders and passage 19. Dantlgraber '346 fails to disclose feature (2) above because there is no adjusting valve on any passage connecting the annular cylinder of pump 20 with the annular cylinder of either of clamping cylinders 6 or 8. Dantlgraber '346 fails to disclose feature (3) above because Dantlgraber '346 fails to disclose the claimed cylindrical cylinder, as discussed above, and because there is no displacement valve on any passage between any of the cylindrical chambers and any of the annular chambers (Fig. 1).

Similarly, Dantlgraber '013 discloses an injection machine having cylinders 8 and 10 (Fig. 1). Cylinder 8 has a piston with a spindle 16. Cylinders 8 and 10 have cylindrical chambers 22 and 32, respectively, and annular chambers 24 and 30, respectively. Cylindrical chambers 32 and 22 are connected by passage 34. Thus, Dantlgraber '013 fails to disclose feature (1) above because the pistons of cylinders 8 and 10 each separately define separate cylindrical chambers 22 and 32, respectivley. Jointly, the pistons of cylinders 8 and 10 do not define a cylindrical chamber, as recited, although they do jointly define a space that comprises the two cylindrical cylinders 22 and 32 and passage 34. Dantlgraber '013 fails to disclose feature (2) above because there is no adjusting valve on passage 36 connecting the annular cylinders 24 and 30 of cylinders 8 and 10. Dantlgraber '013 fails to disclose feature (3) above because Dantlgraber '013 fails to disclose the claimed cylindrical cylinder, as discussed above.

Heineck discloses a remote control system having a master cylinder 10; a motor unit 22; and a cylindrical portion 28 (Fig. 1). Master cylinder 10 includes cylinder housing 12 and piston 14 (Fig. 1; page 1, col. 2, lines 43-56). Cylindrical portion 28 contains reciprocal piston 30 (*Id.*). A first chamber in master cylinder 10 is connected to a first chamber in cylindrical portion 28 by conduit 24, chamber 58 of the motor unit 22, and passage 60 (Fig. 1). Similarly, a second chamber in motor cylinder 10 is connected to second chamber in

cylindrical portion 28 by conduit 26, chamber 62 of motor unit 22, and passage 68 (Fig. 1). Heineck thus discloses that the motor unit 22 exists in the connections between the chambers of master cylinder 10 and cylindrical portion 28 (Fig. 1). Heineck fails to disclose the claimed adjusting valve that opens and closes the communication on a pressure line between the annular chamber of the secondary unit and the annular chamber of the primary unit and fails to disclose a displacement valve that opens or closes the hydraulic communication between the annular chamber of the primary unit and the cylindrical chamber. Thus, Heineck fails to cure the deficiencies of Dantlgraber '346 and Dantlgraber '013, as discussed above.

For the foregoing reasons, the claims are patentable over the applied references.

VI. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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JAO:JHB/jth

Attachment:

Replacement Drawing Sheet

Date: September 10, 2007

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**DEPOSIT ACCOUNT USE
AUTHORIZATION**
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